

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-6 (Canceled)

Claim 7. (Currently Amended): ~~The autofocus control apparatus according to claim 6,~~ An autofocus control apparatus in an image sensing apparatus that comprises: an optical system including a focus lens; an image sensing unit that photoelectrically converts light incident via said optical system into image signals and outputs the image signals; and a drive unit that drives said focus lens to adjust a focus position, said autofocus control apparatus comprising:
a floodlighting unit; and
a focus position detector that performs focus position detection according to an active system and focus position detection according to a passive system on the basis of the image signals obtained from said image sensing unit;
wherein said focus position detector, at the time of focus position detection according to the active system, acquires first image signals with said image sensing unit performing floodlighting with said floodlighting unit, acquires second image signals with said image sensing unit without performing the floodlighting with said floodlighting unit, and detects a focus position on the basis of differential signals between the first image signals and the second image signals;
wherein the first image signals are obtained from a predetermined partial area of said image sensing unit, and the differential signals are of the predetermined partial area; and

wherein said focus position detector, prior to the detection of the focus position, adds differential signals of the predetermined partial area in a predetermined direction to acquire one-dimensional added differential signals, and detects the focus position on the basis of the added differential signals.

Claims 8-12 (Canceled)

Claim 13. (Currently Amended): ~~The autofocus control apparatus according to claim 2,~~ An autofocus control apparatus in an image sensing apparatus that comprises: an optical system including a focus lens; an image sensing unit that photoelectrically converts light incident via said optical system into image signals and outputs the image signals; and a drive unit that drives said focus lens to adjust a focus position, said autofocus control apparatus comprising:
a floodlighting unit; and
a focus position detector that performs focus position detection according to an active system and focus position detection according to a passive system on the basis of the image signals obtained from said image sensing unit;
wherein said focus position detector, at the time of focus position detection according to the active system, acquires first image signals with said image sensing unit performing floodlighting with said floodlighting unit, acquires second image signals with said image sensing unit without performing the floodlighting with said floodlighting unit, and detects a focus position on the basis of differential signals between the first image signals and the second image signals;

wherein said floodlighting unit irradiates an infrared ray, and said image sensing unit is covered by a color separation filter, and image signals outputted from said image sensing unit are corrected to acquire the first image signals according to sensitivity of each color element of said color separation filter with respect to an infrared ray.

Claims 14-20 (Canceled)

Claim 21. (Currently Amended) ~~The autofocus control method according to claim 20;~~ An autofocus control method in an image sensing apparatus that comprises: an optical system including a focus lens; an image sensing unit that photoelectrically converts light incident via said optical system into image signals and outputs the image signals; and a floodlighting unit, said autofocus control method comprising:

performing focus position detection according to an active system on the basis of the image signals obtained from said image sensing unit; and

performing focus position detection according to a passive system on the basis of the image signals obtained from said image sensing unit;

wherein, in performing the focus position detection according to the active system, acquiring first image signals with said image sensing unit performing floodlighting with said floodlighting unit, acquiring second image signals with said image sensing unit without performing the floodlighting with said floodlighting unit, and detecting a focus position on the basis of differential signals between the first image signals and the second image signals;

wherein the first image signals are obtained from a predetermined partial area of said image sensing unit, and the differential signals are of the predetermined partial area; and

wherein, in performing the focus position detection according to the active system, prior to the detection of the focus position,

adding differential signals of the predetermined partial area in a predetermined direction to acquire one-dimensional added differential signals, and

detecting the focus position on the basis of the added differential signals.

Claims 22-26 (Canceled)

Claim 27. (Currently Amended): ~~The autofocus control method according to claim 15;~~ An autofocus control method in an image sensing apparatus that comprises: an optical system including a focus lens; an image sensing unit that photoelectrically converts light incident via said optical system into image signals and outputs the image signals; and a floodlighting unit, said autofocus control method comprising:

performing focus position detection according to an active system on the basis of the image signals obtained from said image sensing unit; and

performing focus position detection according to a passive system on the basis of the image signals obtained from said image sensing unit

wherein, in performing the focus position detection according to the active system, acquiring first image signals with said image sensing unit performing floodlighting with said floodlighting unit, acquiring second image signals with said image sensing unit without performing the floodlighting with said floodlighting unit, and detecting a focus position on the basis of differential signals between the first image signals and the second image signals;

wherein said floodlighting unit irradiates an infrared ray, and said image sensing unit is covered by a color separation filter, said method further comprising

acquiring the first image signals by correcting image signals outputted from said image sensing unit according to sensitivity of each color element of said color separation filter with respect to an infrared ray.